



Draft Media Release
8 July, 2009

NICTA unveils open source portal

In recognition of the growing importance of open source technologies to business and government, NICTA, Australia's ICT Research Centre of Excellence, has gathered all of its world-class open source software in a single, dynamic, publicly accessible online location – OpenNICTA.

This new portal, at www.opennicta.com, makes it easy to view and download NICTA's growing portfolio of 11 licensed open source releases, including the OKL microkernel virtualisation solution, OKL4, now embedded in over 250 million consumer handsets worldwide.**

"NICTA is committed to the ongoing support of open source software, both as a business enabler and as a foundation for research and innovation," says NICTA Chief Technology Officer, Embedded Systems, Dr Chris Nicol: "In the few years since NICTA was established in 2002, we have developed this impressive selection of open source releases including the breakthrough OKL4 embedded hypervisor, the CAmkES runtime framework solution for software developers to build microkernel-based operating systems quickly and reliably, and the Armadillo C++ linear algebra library. I am really proud of each of these releases and the talented teams of researchers who developed them."

Log into www.opennicta.com to find all of the NICTA's open source software and view video footage of NICTA's world-class researchers as they describe and explain the software they and their teams have developed. As NICTA licenses more software releases, they will be added to OpenNICTA.

Featured NICTA researchers and software:

- [Conrad Sanderson](#) and **Armadillo Library**, a C++ linear algebra library using matrix and vector maths
- [Peter Chubb](#) and **Articulate**, an add-on to Lilypond software that converts Lilypond input so that MIDI output more closely resembles a human player. Lilypond is an open source software project that takes a language that describes music and converts it into typeset music
- [Gernot Heiser](#) and **OKL4**, a microkernel-based virtualisation solution for embedded systems
- [Renato Iannello](#) and **CAIRNS**, a demonstrator of technologies used to construct an interoperable Crisis Information Management System Architecture and an **ODRL Microformat Plugin** that detects ODRL microformats on a web page and indicates this to the user
- [Ihor Kuz](#) and **CAmkES**, a software development and runtime framework that reliably and quickly build microkernel-based multiserver operating systems
- [Athanasios Boulis](#) and **Castalia**, a simulator for low-power embedded devices
- [Olivier Mehani](#) and **Freeze-TCP module for ns-2**, a module that adds support for Freeze-TCP
- **Ralph Becket** and **MiniZinc**, a modelling language which can express most constraint programming problems easily, but can also be mapped onto existing solvers easily and consistently
- **Christopher Leckie** and **NOSA**, a reusable, scalable, extensible, and interoperable service oriented Sensor Web architecture
- **Lars Petersson** and **Pedestrian Dataset**, a dataset containing 25551 unique pedestrians, allowing for a dataset of over 50K images with mirroring.

To arrange Interviews with OpenNICTA researchers or Dr Chris Nicol, please call:

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About NICTA

National ICT Australia Ltd (NICTA), Australia's Information and Communications Technology (ICT) Research Centre of Excellence, is developing technologies which will meet the current and future needs of the community in fields which will lead to large economic, social and environmental benefits for Australia. NICTA has five laboratories around the country. Since NICTA was founded in 2002, it has created four new companies, developed a substantial technology portfolio of patent applications and continues to supply new talent to the ICT industry through the NICTA-enhanced PhD program.

NICTA is funded by the Australian Government as represented by the Department of Broadband, Communications and the Digital Economy and the Australian Research Council through the ICT Centre of Excellence program. It was established and is supported by its members: The Australian Capital Territory Government; The Australian National University; NSW Department of State and Regional Development; and The University of New South Wales. NICTA's partners include: the University of Sydney; University of Melbourne; the Victorian Government; the Queensland Government; Griffith University; Queensland University of Technology; and The University of Queensland.

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** Figure supplied by OK Labs